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## New species and taxonomic notes on *Anteros* Hübner, [1819] and *Ourocnemis* Bethune-Baker, 1887 (Lepidoptera: Riodinidae)

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### Abstract

Three new species of *Anteros* Hübner, [1819] from south and southeastern Brazil are described: *A. alicae* Dias & Siewert, **sp. nov.**, *A. zikani* Siewert, Dias & Dolibaina, **sp. nov.** and *A. ethani* Dias, Dolibaina & Mielke, **sp. nov.** Habitus and genitalia of male and female specimens of the new species are illustrated, along with illustrations of the habitus and male genitalia of the most similar species for proper distinction. The following taxonomic changes are proposed: *A. micon* Druce, 1875, **stat. rest.**, *A. roratus* Godman & Salvin, 1886, **stat. rest.**, and *A. theleia* Stichel, 1910, **stat. nov.** *Anteros formosus stramentarius* Stichel, 1909, **syn. nov.** is sunk as a junior subjective synonym of *A. formosus*. Additionally, *Ourocnemis axiochus* (Hewitson, 1867), **stat. rest.**, is recognized as a species distinct from *O. archytas* (Stoll, 1787); illustrations of the male genitalia and of the differential characters of the wing pattern of both species are provided. A male of the rare *Ourocnemis bouletti* Le Cerf, 1911, is reported from southeastern Peru. Distributional data and a map are provided for all species studied.

**Key words:** Brazil, Peru, Atlantic forest, Araucaria moist forest, Serra do Mar coastal forest, Helicopini

### Introduction

Helicopini (Lepidoptera: Riodinidae) contains some of the most exquisite and delicate species of riodinids of the Neotropical region. It encompasses 41 species currently allocated in four genera: *Helicopis* Fabricius, 1807, *Sarota* Westwood, 1851, *Anteros* Hübner, [1819] and *Ourocnemis* Bethune-Baker, 1887 (Callaghan & Lamas 2004). These genera are grouped together by the presence of bladder-like setae on the anterior edge of the prothoracic shield of the larvae (Harvey 1987; Hall 1998). Unlike many other related riodinids, species belonging to Helicopini rest with the wings closed and display a hind wing rubbing behavior similar to that observed in the Lycaenidae (Robbins 1986, Hall 1998). *Sarota*, *Anteros* and *Ourocnemis* form a well-supported group, characterized by the presence of spatulated scales around the ovipositor lobes and spine-like setae between them and the *ostium bursae* in the female genitalia (Hall 1998) that are used to scrape and gather debris to cover the eggs, which is probably an attempt to deter ants and/or parasitoids (Greeney *et al.* 2010). Of the four Helicopini genera, only *Sarota*—the largest genus of the tribe—was recently revised (Hall 1998). In a much abridged analysis, Hall (1998) tested the phylogenetic relationships among the genera of Helicopini. The analysis confirmed the monophyletic status of *Helicopis* and *Sarota*, but suggested that *Anteros* is paraphyletic with respect to *Ourocnemis*. In both genera the valvae of the male genitalia join dorsally towards the base, and adult males have been recorded as attracted to rotting fish.

*Anteros* is the second largest genus of Helicopini, with 16 species ranging from Mexico to southern Brazil (Callaghan & Lamas 2004; Rodríguez *et al.* 2010). Nevertheless, there is no single character to distinguish the genus. D'Abbrera (1994) highlighted the presence of a hairy tail at the tornus of the hind wing, with smaller hairy

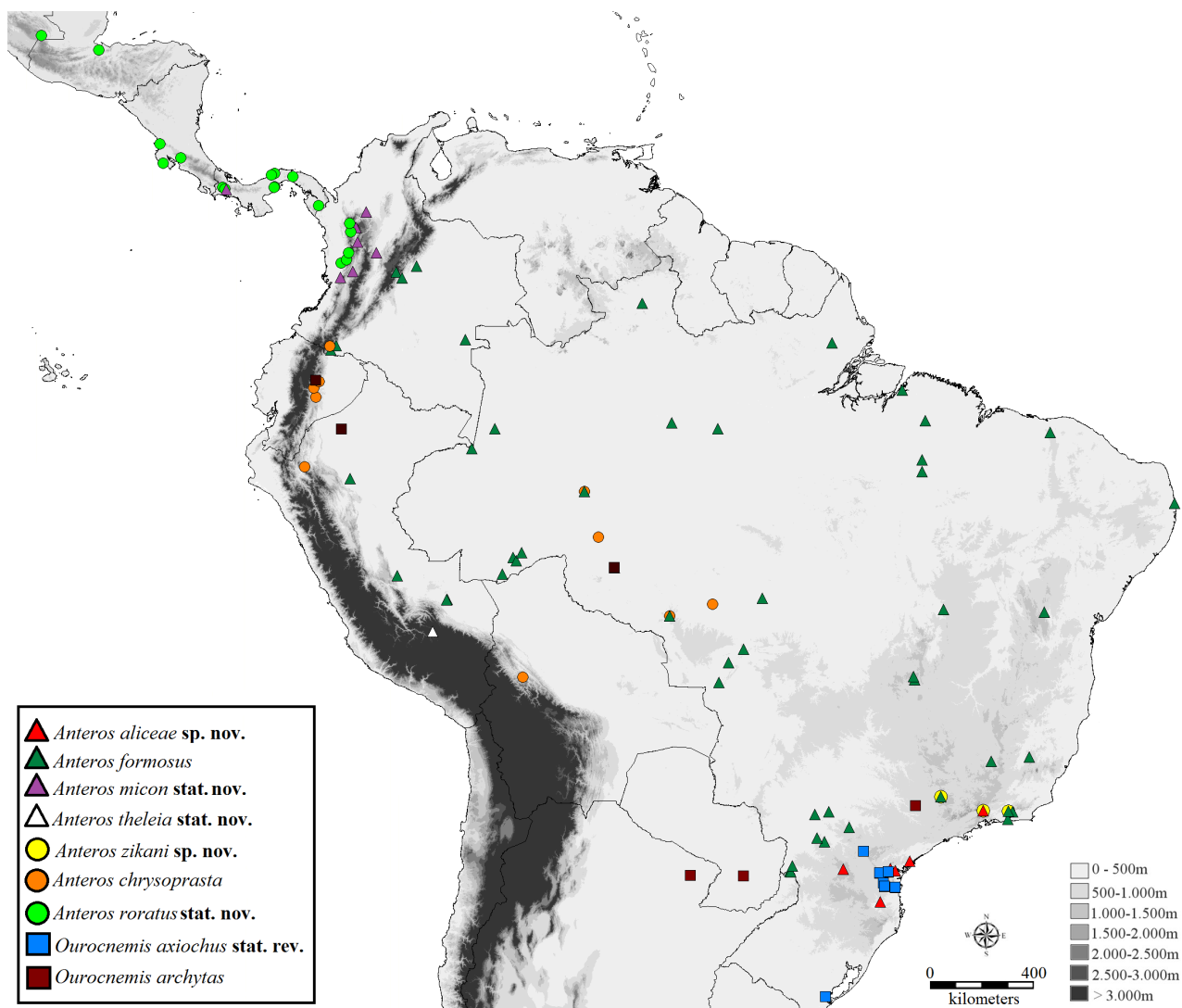


FIGURE 44. Distribution map of species of *Anteros* Hübner [1819] and *Ourocnemis* Bethune-Baker, 1887.

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